ABSTRACT

The present invention discloses a system and method of estimating phase error in a waveform sent from an analog transmitter. In a first technique, the ratio of the minimum to maximum envelope may be fit into a curve to determine the phase error of the waveform. In a second technique utilizing the maximum abscissa, the phase error estimate may be obtained utilizing an arctangent of an angle formed by a line from an origin through a point on the waveform at the index where the angle is equal to the phase error. A third technique for estimating phase error may involve determining an angle subtended by a line from an origin to an intersection and the closest axis, where the phase error estimate is twice the angle formed.